| STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES AMENDED REPORT DIVISION OF OIL, GAS AND MINING                   |                             |   |  |   |  |     |   |                    |  |  |        |            |          |      |  |
|---|-----------------------------|---|--|---|--|-----|---|--------------------|--|--|--------|------------|----------|------|--|
| APPLICATION FOR PERMIT TO DRILL   |                             |   |  |   |  |     |   |                    |  | 1. WELL NAME and NUMBER  North Alger 27-31A  |        |            |          |      |  |
| 2. TYPE OF WORK  DRILL NEW WELL  REENTER P&A WELL DEEPEN WELL   |                             |   |  |   |  |     |   |                    |  | 3. FIELD OR WILDCAT  NATURAL BUTTES  |        |            |          |      |  |
| 4. TYPE OF WELL  Gas Well Coalbed Methane Well: NO  |                             |   |  |   |  |     |   |                    |  | 5. UNIT or COMMUNITIZATION AGREEMENT NAME<br>NORTH ALGER   |        |            |          |      |  |
| 6. NAME OF OPERATOR  KOCH EXPLORATION COMPANY LLC   |                             |   |  |   |  |     |   |                    |  | 7. OPERATOR PHONE<br>303 325-2562  |        |            |          |      |  |
| 8. ADDRESS OF OPERATOR 950 17th Street, Suite 1900, Denver, CO, 80202   |                             |   |  |   |  |     |   |                    |  | 9. OPERATOR E-MAIL howard4d@kochind.com  |        |            |          |      |  |
| 10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ITTI 149518  11. MINERAL OWNERSHIP FEDERAL II INDIAN STATE |                             |   |  |   |  |     |   |                    |  | 12. SURFACE OWNERSHIP  |        |            |          |      |  |
|   |                             | FEDERAL INDIAN STATE FEE  14. SURFACE OWNER PHONE (if box 12 = 'fee') |  |   |  |     |   |                    |  |  |        |            |          |      |  |
| 13. NAME OF SURFACE OWNER (if box 12 = 'fee')  15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')                 |                             |   |  |   |  |     |   |                    |  |  |        |            |          |      |  |
| 15. ADDRI   | ESS OF SURFA                |   | 16. SURFACE OWNER E-MAIL (if box 12 = 'fee') |   |  |     |   |                    |  |  |        |            |          |      |  |
|   | I ALLOTTEE O<br>= 'INDIAN') | R TRIBE NAME  |  | 18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS |  |     |   |                    | 19. SLANT                                |  |        |            |          |      |  |
| (11 50% 12  | - indiant,                  |   |  | YES   | YES (Submit Commingling Application) NO  |     |   |                    |  | VERTICAL DIRECTIONAL HORIZONTAL  |        |            |          |      |  |
| 20. LOCATION OF WELL  |                             |   |  |   | FOOTAGES   |     | R-QTR   | SECTION            |  | TOWNSHIP   | R.A    | NGE        | MERIDIAN |      |  |
| LOCATIO   | N AT SURFACE                |   | 2126   | 2126 FSL 1181 FWL   |  | NV  | VSW   | 27                 |  | 10.0 S   | 19     | .0 E S     |          | S    |  |
| Top of U  | ppermost Proc               | lucing Zone   | 2310   | 2310 FSL 330 FWL  |  | NV  | vsw   | 27                 |  | 10.0 S   | 19     | .0 E       | .0 E S   |      |  |
| At Total Depth 2310 F   |                             |   |  |   | FSL 330 FWL  |     | vsw   | 27                 |  | 10.0 S   | 19.0 E |            | S        |      |  |
| 21. COUN  | TY                          | UINTAH  | 22. DI                                       | 22. DISTANCE TO NEAREST LEASE LINE (Feet) 1181              |  |     |   |                    | 23. NUMBER OF ACRES IN DRILLING UNIT 640 |  |        |            |          |      |  |
|   |                             |   |  |   | 25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 15 |     |   |                    |  | <b>26. PROPOSED DEPTH</b> MD: 10408 TVD: 10300   |        |            |          |      |  |
| 27. ELEVA   | TION - GROUN                | <b>1D LEVEL</b> 5223  |  | 28. B0  | 28. BOND NUMBER  COB000296   |     |   |                    |  | 29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-2231, 43-8496, 49-1645, 49-2375 |        |            |          |      |  |
| Hole, Casing, and Cement Information  |                             |   |  |   |  |     |   |                    |  |  |        |            |          |      |  |
| String Hole Size Casing Size Length   |                             |   |  | Weight Grade & Threa  |  |     |   |                    | Cement                                   |  | Sacks  | Yield      | Weight   |      |  |
| Surf  | 12.25                       | 8.625   | 0 - 2500                                     | 32.0  | J-55 LT  | T&C | 8   | .5                 |  | Type V<br>Class G  |        | 301<br>250 | 1.15     | 11.0 |  |
| Prod  | 7.875                       | 4.5   | 0 - 10408                                    | 11.6  | L-80 L7  | T&C | 13  | 5.0                | Pre                                      | mium Lite High Strength  |        | 326        | 1.79     | 12.0 |  |
|   |                             |   |  |   |  |     |   |                    | Pre                                      | mium Lite High Strength  |        | 1943       | 1.27     | 13.5 |  |
| ATTACHMENTS   |                             |   |  |   |  |     |   |                    |  |  |        |            |          |      |  |
| VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES            |                             |   |  |   |  |     |   |                    |  |  |        |            |          |      |  |
| WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER  |                             |   |  |   |  |     | COMPLETE DRILLING PLAN                            |                    |  |  |        |            |          |      |  |
| AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)   |                             |   |  |   |  |     | FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER |                    |  |  |        |            |          |      |  |
| DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)  |                             |   |  |   |  |     |   | TOPOGRAPHICAL MAP  |  |  |        |            |          |      |  |
| NAME Th   | eron Hoedel                 |   | TITLE  | TITLE Operations Engineer                                   |  |     |   | PHONE 303 325-2565 |  |  |        |            |          |      |  |
| SIGNATU   | RE                          |   |  | DATE (  | DATE 02/10/2015  |     |   |                    | EMAIL t                                  | MAIL theron.hoedel@kochind.com   |        |            |          |      |  |
|   | BER ASSIGNED<br>047552490   |   |  | APPRO   | APPROVAL   |     |   |                    |  | racijill   |        |            |          |      |  |
|   |                             |   |  | Perm  |  |     |   |                    | nit Manager                              |  |        |            |          |      |  |

## T10S, R19E, S.L.B.&M. S89°54'W - 80.05 (G.L.O.) Found 1956 S89°54'40"W - 2642.16' (Meas.) Brass Cap in Mound of Stones Found 1956 Brass Cap with Mound of Stones. NORTH ALGER 27-31A (Surface Position) N01°00'43"W - 2660.35' (Meas. NAD 83 LATITUDE = 39.916687° (39° 55' 00.073") LONGITUDE = 109.773312° (109° 46' 23.923") NAD 27 LATITUDE = 39.916722° (39° 55' 00.200") LONGITUDE = 109.772616° (109° 46' 21.417") 80.64 (G.L.O.) NORTH ALGER 27-31A (Bottom Hole) NAD 83 LATITUDE = 39.917194° (39° 55′ 01.898″) LONGITUDE = 109.776359° (109° 46' 34.892") NAD 27 LATITUDE = 39.917229° (39° 55' 02.024") N1°01'W - 80.61 (G.L.O.) LONGITUDE = 109.775663° (109° 46' 32.386") N0°38'W - 80.76 (G.L.O.) Found 1956 Found 1956 Brass Cap in Brass Cap in N89°59'13"E - 5266.81' (Tie) Mound of Stones Mound of Stones. Bottom 80.76 (G.L.O.) Bearings) of Hole 330 **WELL LOCATION:** 1181' NORTH ALGER 27-31A Well 2659.61' (Measured) ELEV. UNGRADED GROUND = 5222.5 Surface (Basis of Position 80.58 (G.L.O.) 2126' N01°01'02"W Found 1956 Brass Cap in Mound of Stones Found 1956 N89°56'53"W - 2624.21' (Meas.) Brass Cap in N89°56'W - 79.52 (G.L.O.) Mound of Stones. 500 NOTES: = Section Corners Located SCALE 1. Well footages are measured at right angles to the Section Lines SURVEYOR'S CERTIFICATE 2. G.L.O. distances are shown in feet or chains. THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS 1 chain = 66 feet. PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS 3. The Bottom of hole bears N77°48'18"W 874.62' MADE BY ME OR UNDER MY SUPERVISION AND THAT from the Surface Position. THE SAME ARE TRUE AND CORRECT TO THE BEST OF 4. Basis of elevation is the South 1/4 Corner of Section MY KNOWLEDGE AND BELLET 0.602869 27, T10S, R19E, S.L.B.&M. (Being a 1956 Brass Cap). The elevation of this Section Corner was Calculated using an NGS OPUS Solution report to be 5279.5' (NAVD 88). GISTRATIONNE. 602869 Koch Exploration Company, LLC STATE OF UTAH 950 17th Street, Suite 1900 - Denver, Colorado 80202 (435) 789-1365 **WELL PAD: 27-31** TIMBERLINE ENGINEERING & LAND SURVEYING, INC. **NORTH ALGER 27-31A** 209 NORTH 300 WEST - VERNAL, UTAH 84078 WELL PLAT DATE SURVEYED: SHEET NO: SURVEYED BY: T.A. 3 - 3 - 142310' FSL, 330' FWL (Bottom Hole) DATE DRAWN: DRAWN BY: J.G.C. NW $\frac{1}{4}$ SW $\frac{1}{4}$ OF SECTION 27, T10S, R19E, 3-10-14 Date Last Revised:

SCALE: 1" - 1000

OF 12

S.L.B.&M., UINTAH COUNTY, UTAH.